Title (en)

OFDMA contention-based random access channel design for mobile wireless systems

Title (de)

Entwurf für einen OFDMA-Direktzugriffskanal auf Konkurrenzbasis für mobile drahtlose Systeme

Title (fr)

Design d'un canal d'accès aléatoire du OFDMA basé sur la gestion de contention pour les systèmes sans fil mobiles

Publication

EP 2114031 B1 20130731 (EN)

Application

EP 09159253 A 20090430

Priority

US 15114008 A 20080502

Abstract (en)

[origin: EP2114031A2] Short spreading is used within a random access channel in an OFDM based network to spread data for transmission through the channel. The resource allocation of the random access channel is divided into a number of resource blocks in frequency, time, or both frequency and time. Each resource block has a dimension that is only a portion of the overall size of the resource allocation. During contention, a randomly selected short spreading code may be used to provide data spreading within a randomly selected resource block.

IPC 8 full level

H04L 5/00 (2006.01); **H04L 27/26** (2006.01); **H04W 74/00** (2009.01); **H04W 74/04** (2009.01); H04W 28/06 (2009.01); H04W 72/04 (2009.01); H04W 74/08 (2009.01)

CPC (source: EP US)

H04L 5/0016 (2013.01 - EP US); **H04L 5/0053** (2013.01 - EP US); **H04L 27/2601** (2013.01 - EP US); **H04W 74/008** (2013.01 - EP US); H04W 74/0833 (2013.01 - EP US)

Cited by

EP3764572A1; GB2467447B; US9826431B2; WO2018048521A1; WO2014061361A1; US9137002B2; US10178699B2; US10645731B2; WO2010089543A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2114031 A2 20091104; **EP 2114031 A3 20120523**; **EP 2114031 B1 20130731**; BR PI0901404 A2 20171107; CN 101640936 A 20100203; CN 101640936 B 20120919; JP 2010016801 A 20100121; JP 4871372 B2 20120208; US 2009274105 A1 20091105; US 8094616 B2 20120110

DOCDB simple family (application)

EP 09159253 A 20090430; BR PI0901404 A 20090429; CN 200910137165 A 20090504; JP 2009110099 A 20090428; US 15114008 A 20080502